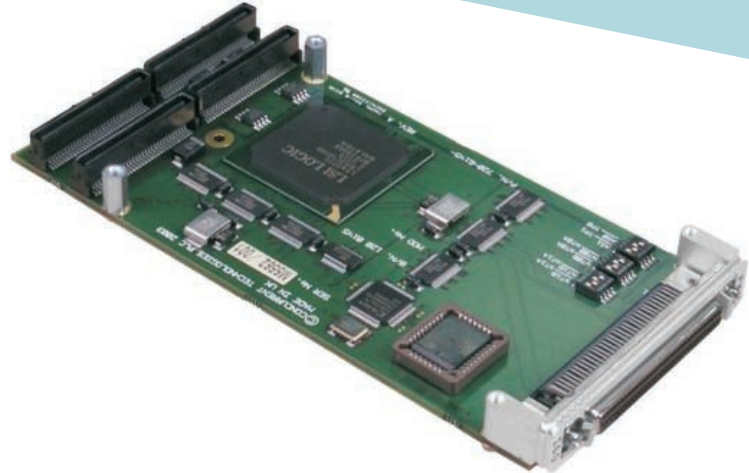


PMC Ultra160 SCSI Adaptor



APPLICATIONS

The SC PMC/160 is a high performance intelligent Ultra160 SCSI adapter suitable for any PMC Host Board including VME Bus, Compact PCI® and Multibus II. A single or dual channel version is available utilizing the LSI Logic® 53C10x0R SCSI controller family. To alleviate the processing load of the host CPU the controller manages the Ultra160 SCSI protocol - including previous

SCSI protocols for backward compatibility. Both single and dual channel variants have a 68-way High Density SCSI connector on the front panel. The dual channel variant has an additional interface via the rear I/O P4 PMC connector.

To simplify the board's integration many popular industry standard operating systems are supported.

HIGHLIGHTS

- Single or dual channel SCSI interfaces:
 - Data rates up to 160 Mbytes/s throughput on each channel
 - Backwards compatible for all SE and LVD SCSI Transfer Modes
 - Narrow (8-bit) or wide (16-bit)
- 512 Kbytes Flash EPROM for BIOS
- PMC (PCI Mezzanine Card) format:
 - Single size CMC (Common Mezzanine Card)
 - 33/66 MHz, 32/64-bit PCI interface
 - 5V or 3.3V signaling
- Software support for Windows NT®, Windows® 2000, Windows® XP, Windows® XP Embedded, Linux®, Solaris™, UnixWare® and VxWorks®

SCSI Interface

- many SCSI standards supported:-
 - SPI-3 [Ultra160 SCSI] LVD (160 Mbytes/s) - wide
 - SPI-2 [Wide Ultra2 SCSI] LVD (80 Mbytes/s) - wide
 - SPI-2 [Ultra SCSI] LVD (40 Mbytes/s) - narrow
 - SPI [Wide Ultra SCSI] SE (40 Mbytes/s) - wide
 - SPI [Ultra SCSI] SE (20 Mbytes/s) - narrow
 - SCSI-2 [Fast Wide SCSI] SE (20 Mbytes/s) - wide
 - SCSI-2 [Fast SCSI] SE (10 Mbytes/s) - narrow
 - SCSI-2 [Wide SCSI] SE (10 Mbytes/s) - wide
 - SCSI-1 SE (5 Mbytes/s) - narrow
- narrow (8-bit) or wide (16-bit) single ended or LVD interfaces with auto-sense capability
- asynchronous and synchronous operation
- active termination and signal negation
- CRC (Cyclic Redundancy Check)
- AIP (Asynchronous Information Protection)
- SureLINK® Domain Validation
- Ultra160 SCSI I/O processor provides:-
 - double transition clocking for 160 Mbytes/s throughput on each channel
 - 33/66 MHz, 32/64-bit PCI interface
 - theoretical 528 Mbytes/s zero wait state transfer rate with 66 MHz/64-bit PCI interface
- utilizes LSI Logic® 53C1000R for single channel or 53C1010R for dual channel
- SCSI I/O connection via:-
 - front panel 68-way HD connector
 - rear I/O P4 PMC connector (on dual channel variant)
- supports disk, tape and other peripherals

PMC Interface

- complies with PCI Protocol and Electrical Specifications
- supports PCI clock rates up to 66 MHz:-
 - 5V or 3.3V signaling interface
- 32/64-bit interface
- bus master capability
- base address and software configurable

BIOS EPROM

- 512 Kbytes, 8-bits wide Flash (29LV040)
- 32-pin JEDEC socket
- standard LSI Logic BIOS Firmware

Software Support

- support for Windows NT, Windows 2000, Windows XP, Windows XP Embedded, Linux, Solaris, UnixWare and VxWorks

Electrical Specification

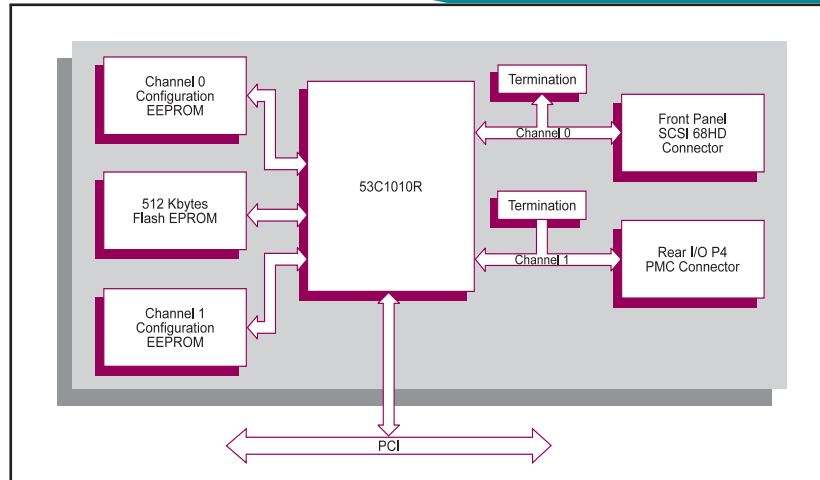
- requires 3.3V and 5V supplies:-
 - all voltages to be within $\pm 5\%$
 - power consumption up to 5.4W (excluding SCSI bus requirements)
- +12V and -12V not utilized

Environmental Specification

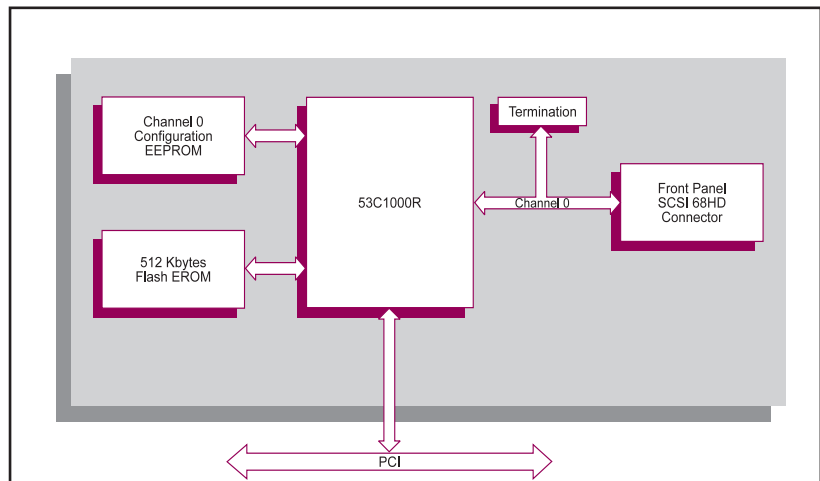
- 0°C to +55°C @ 200LFM air flow (operating)
- 10% to 90% relative humidity (operating and storage)
- -40°C to +85°C (storage)

Mechanical Specification

- single size CMC (Common Mezzanine Card) 74mm
- 10mm height stack module



Dual Channel Ultra160 SCSI Adaptor for PMC with IO via front panel and rear connector



Single Channel Ultra160 SCSI Adaptor for PMC with IO via front panel only

ORDERING INFORMATION

Order Number Product Description (Hardware)

- SC PMC/160-00 Dual Channel Ultra160 SCSI Adaptor for PMC with IO via front panel and rear connector
- SC PMC/160-01 Single Channel Ultra160 SCSI Adaptor for PMC with IO via front panel only